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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A speed sensor for a moving member ~~(8)~~, the sensor comprising means ~~(27; 34)~~ for constituting a magnetic singularity on a portion ~~(9)~~ of the moving member, and a sleeve slidably receiving said portion and including at least an annular coil ~~(20, 21)~~ and a tubular body having two magnetic assemblies mounted in opposition to each other on a common axis, which assemblies are separated by a ferromagnetic spacer, each having one of the coils and, on its side remote from the spacer, one of the pole pieces in such a manner that the spacer, the coils, and the pole pieces form a housing for slidably receiving the portion of the moving member that presents the magnetic singularity, each magnetic assembly comprises an annular permanent magnet ~~(22, 23)~~ disposed on a common axis between annular pole pieces ~~(24, 25)~~and mounted around its coil, the magnetic singularity, the coils, and the permanent magnet being arranged so that the coil provides a linear signal that is independent of the position of the moving member.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Currently amended) A sensor according to claim 1, wherein the means for constituting the magnetic singularity comprise a ferromagnetic insert ~~(27)~~ secured to a non-magnetic portion of the moving member ~~(8)~~.

6. (Currently amended) A sensor according to claim 1, wherein the means for constituting the magnetic singularity comprise an outside groove ~~(34)~~ made in a ferromagnetic portion of the moving member ~~(8)~~.